



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

# Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due
PO040109	MEC002-VU	2	1	Net 30	M304B1.000X1.000	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12	6/20/2018	12		S080448	Stock	6/12/2018	\$ 23.26 / ft	0	
Total:										12		12							

Plex 6/12/2018 2:16 PM Dart.Dubois.Pascal



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 3618979

<b>Ship From:</b>	A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	<b>Sold To:</b>	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	<b>Ship To:</b>	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	<b>Deliver To:</b>	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
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<b>Date Shipped</b>	11-JUN-18	<b>F.O.B.</b>	ORIGIN	<b>Freight Terms</b>	Prepaid	<b>Carrier</b>	MANITOU LIN	<b>BOL No</b>	3618979-2
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Shipment Details

Final Destination Branch - TOR

Order No	Line No	Item No	Description
5163035	1	8560	1.0000.SQ.304/304L.STAINLESS.HR.ANN.PICKLE.132.0000-156.0000 SPECIFICATIONS: ASTM A276
Purchase Order No	Part Number	Ordered Qty	Invoice Qty
40109		12.00 FT	12.5833 FT
Details			
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			

<b>Delivery No.</b>	121869020	<b>Mill/Source</b>	VALBRUNA CORPORATION	<b>Heat Number</b>	27601011	<b>Mech Id</b>	PCS 1	<b>Width (IN)</b>		<b>Length (IN)</b>	151.0000	<b>Shipped Qty(LBS)</b>	42.7833
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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: JUN 11 2018 Name:



## Castle Metals

HEAT NUMBER: 276010  
MECHANICAL ID: \_\_\_\_\_  
ITEM CODE: 8560  
PO/LINE NUMBER: 437740  
RECEIPT NUMBER: \_\_\_\_\_  
SUPPLIER: VALBRUNA  
SPECIFICATION: \_\_\_\_\_  
LCS: NO  
COMMENT: \_\_\_\_\_  
APPROVED: AMB



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## PO040109

**Supplier:** MEC002-VU  
Metaux Castle  
P.O. Box 4090 Stn A  
Toronto  
ON  
M5W OE9 Canada

**PO No:** PO040109

**PO Date:** 6/5/18

**Due Date:** 6/20/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
Phone: clavoie@dartaero.com

**E-MAILED**  
JUN 8 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

### Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M7075T6S1.000X5.000		7075-T6 Sheet 1" Thick Plate X 5" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	6/20/18	24 ft	0 ft	24 ft	\$41.05/ft	\$985.20
2	M304B1.000X1.000		304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/20/18	12 ft	0 ft	12 ft	\$23.26/ft	\$279.12
3	M303B3.000X6.000		AISI 303 SS Bar 3.000" x 6.000" : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	6/20/18	4 ft	0 ft	4 ft	\$139.9725/ft	\$559.89
4	M303B2.000X1.750		303 Bar 2" X 1.750" : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	6/20/18	12 ft	0 ft	12 ft	\$111.75/ft	\$1,341.00

**Grand Total: \$3,165.21**

### Order Notes

*[Handwritten signature]*

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DAS  
11  
5-18

## Order Notes

## Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 6/5/18 12:19 PM dart.lavoie.chantal

## Chantal Lavoie

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**From:** Desbiens, Marc <mdesbien@amcastle.com>  
**Sent:** Friday, June 01, 2018 8:17 AM  
**To:** Chantal Lavoie  
**Subject:** RE: quote

Good Morning Chantal,

price and delivery on mat'l.

KLH

7075t6 plate 1" x 5" x 24 ft \$ 41.05 Ft 2 weeks

304 bar 1 x 1 x 12 ft \$ 23.26 Ft 2 weeks

~~304 bar 0.500" x 12" x 6 ft~~ Must regret, not available

303 bar 3" x 6" x 4 ft \$ 559.89 Ft 2 weeks

303 bar 2" x 1.750" x 12 ft \$ 111.75 Ft 2 weeks

Thanks

Marc Desbiens  
Inside sales representative  
Castle Metals, Montreal, QC  
Direct line 514-795-8176  
1-800-806-6660 ext 52226  
Fax # 1-855-892-6370

*Customized Supply Chain Solutions for Your Metal Needs*

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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B1.000 X 1.000

PO / BATCH NO.: 040109/5080448

DATE: JUN 12 2018

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 121  
 QUANTITY INSPECTED: 121  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000  
 THICKNESS RECEIVED: 1.000  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>Astin A276</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>Heat # 276010</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JUN 12 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE  
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276 OR ASTM A240  
PART NUMBER: M304B TTT |X| WW.WWW |  
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
AND "WW.WWW" = WIDTH IN INCHES

△ EG. 0.5" x 3.0" BAR = M304B0.500X03.000  
△ EG. 0.5" x 12.0" PLATE = M304B0.500X12.000

RELEASED  
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS AND CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZIN D6-1). REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M304B
TITLE	304/316 BAR/PLATE
REV. C	SHEET 1 OF 1
SCALE	NTS
COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD AND IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION OF DART AEROSPACE LTD	





## CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1

Certificato nr. MEST202596 / 2018 /  
Prüfung/Test/Essai

Cliente / Besteller/Purchaser/Cliet  
VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled Descaled Annealed Hot  
Lieferzustand: rolled  
Delivery state:  
Etat de livraison:

Produttore:  
Hersteller/Item/Usine producer:

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 55651 437740 CASTLE  
Bestell:  
Your order:  
Commande:

Tipo di Elaborazione: E+AOD  
Erschmelzungsart:  
Melting process:  
Mode d'élaboration:

Marchi di Fabbrica:  
Zeichen des Lieferwerkes:  
Trade marks:  
Egles de l'usine productrice:



Conferma ordine nr: EI17012730  
Werk/Our Order/Ref nr:

Qualità: T-304/304L #8560  
Werkstoff/Grade/Qualité:

Punzone del Collaudatore:  
Stempel des Werksachverständigen:  
Inspector's stamp/Ponçon de l'essayeur:

MR

Avviso di Spedizione: D-VI18004726  
Lieferanfrage/Packing list:

Marca: AISI  
Markenbezeichnung:  
Brand / Marque:

Punzonatura: 304/304L  
Kennzeichnung:  
Marking:  
Marquage:

### SPECIFICHE:

Anforderungen / Requirements / Exigences

Note

Anzeichnungen / Notes / Notes

3304-23 49 304 A  
AISI 304  
AMS 5639 H S30400 A  
AMS-QQ-S-763 D 304 A  
ASME SA182 2015 S30400 A (0)  
ASME SA479 2015 S30400 A (1)  
ASTM A182 2016 S30400 A (2)  
ASTM A262 2015 PRACTICE E  
ASTM A276 2017 S30400 A  
ASTM A479 2017 S30400 A

(0)SECTION II PT.A 2015 EDITION For products machined directly from bar refer to ASME SA479.  
(1)SECTION II PT.A 2015 EDITION  
(2)For products machined directly from bar refer also to ASTM A479.

Tolleranza: ASTM A484-16 TABLE 3

Pos. nr. Pos. nr. Pos. nr.	Oggetto Objekt Objekt	Dimensioni - in Abmessung Dimension	Lunghezza - in Länge Length	Colata Schmelze Casting	Pezzi Stücke Pieces	Peso - LB Gewicht Weight	Lotto nr. Los Lot no.
0010	Square	1,0000 x 1,0000	144/ 153	276010		3.091	802407860

### TEST ALLO STATO DI FORNITURA

Test on delivery condition / Prüfung auf lieferbarem produkt / test a l'état de fourniture / Prueba sobre el material así como entregado

TEST	Prova / Probe Spezimen / Specimen Längs-Querschnitt Long. Trans. Section Wahl-Querschnitt Wahl-Querschnitt Long. Trans. Section	Pos. Gegen Position Position	Snervamento Biegeversuch Tensile Stress Limit stress Rp 0,2%	Snervamento Biegeversuch Tensile Stress Limit stress	Resistenza Zugversuch Tensile strength Resistance à traction Rm	Allungamento Bruchversuch Elongation Allongement E 4d	Strizione Ermüdungsversuch Production of stress Striction	Resilienza Hartversuch Impact Value Resilience	Durezza Härte Hardness HB
Valori richiesti Anforderungen/Required values Valeurs demandées		min max	30	-	75 115	- 40	- 50	-	140 223
A	12.5	68 L	41		86	59	70		179

### TEST ALLO STATO DI FORNITURA

Test on delivery condition / Prüfung auf lieferbarem produkt / Test a l'état de fourniture / Prueba sobre el material así como entregado

TEST	min	max
A Grain size for ASTM E112		6

### Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Alast Schmelze/Coules	min - max 0.000	1.00	2.00	18.00	1.00	1.00	8.00	1.00	0.040	0.020	0.001
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %
276010	0.012	0.40	1.87	18.40	0.30	0.29	8.29	0.098	0.027	0.024	0.091

Vicenza, 14/02/18

VCO008 - MEST202596

(Mod. MCE2)

Il collaudatore di stabilimento / der Werksachverständige / Works inspector / L'agent d'usine

M. RIZZOTTO

Pagina - 1 di 2



## CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: **EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1**

Nachtrag/Beleg/Beleg

Certificato nr. **MEST202596 / 2018 /**  
Prüfung/Test/Esau.

Cliente / Besteller/Purchaser/Client  
**VALBRUNA STAINLESS INC.**  
**2400 TAYLOR STREET WEST**  
**46801 - FORT WAYNE, IN 46801 - US**

Stato di fornitura: **Hot rolled Descalaed Annealed Hot rolled**  
Lieferzustand  
Delivery state  
Etat de livraison

Produttore  
Hersteller/Fabrik/Usine productrice

**ACCIAIERIE VALBRUNA S.P.A.**

Ordine nr. **55651 437740 CASTLE**  
Bestell  
Your order  
Commande

Tipo di Elaborazione: **E+AOD**  
Erschmelzungsart  
Melting process  
Mode d'élaboration

Marchi di Fabbrica  
Zeichen des Lieferanten  
Trade marks  
Egles de l'usine productrice



Conferma ordine nr. **EI17012730**  
Werk-/Our Order/Ref nr.

Qualità: **T-304/304L #8550**  
Werkstoff/Qualitätsstufe

Punzone del Collaudatore  
Stempel des Werkstoffverständigen  
Inspector's stamp/Ponçon de l'essayeur

**MR**

Avviso di Spedizione: **D-VI18004726**  
Lieferanfrage/Packing list/B.L.

Marca: **AISI**  
Markenbezeichnung  
Brand / Nuance

Punzonatura: **304/304L**  
Markierung  
Marking  
Marquage

### Corrosion test in 16% sulfuric acid and copper sulfate solutions

Test standard: **ASTM A262-Practice E**

Test	Heat treatment before test	Length of Period (h)	Test temp (°C)	Bend Angle (°)	Ø spindle (mm)	Result of visual inspection at 20 x magnification after bend test	Result
Intergranular corrosion	Sensitization	15	boil	180	5	Absence of cracks	<b>SATISFACTORY</b>

Annealing temperature: **1940°F for 1 h/water.**  
Macroetch test: **ok.**  
Reduction ratio = **50,2 : 1**  
Material is **DFARS Compliant**

Sono state soddisfatte tutte le condizioni richieste  
Die gestellten Anforderungen sind erfüllt  
The material has been furnished in accordance with the requirements  
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: **OK**  
Verwechslungsprüfung: **spezialanalytisch durchgeführt**  
Anmischungstest performed: **OK**  
Controlle antimesclage fait: **r.s.s.**

Controllo visivo e dimensionale: **soddisfa le esigenze**  
Besichtigung und Ausmessung: **ohne Beanstandung**  
Visual inspection and dimensional checks: **satisfactory**  
Controlle visuel et dimensionnel: **satisfaisant**

Melted and manufactured in Italy

No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

**QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2008, IATF 16949 : 2016, AS 9100C**

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1 s.4.3 and 2014/68/EU by TÜV and LLOYD'S  
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.  
Maximal and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.  
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser, Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, **14/02/18**

VC0008 - MEST202596

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkstoffverständige / Works Inspector / L'agent d'usine

**M.RIZZOTTO**

Pagina - 2 di 2